



SEQUENCE LISTING

<110> Philippe
Kaczorek, Michel
Temsamani, Jamal

<120> Peptides carrying substances across the blood brain barrier

<130> 19904-012 NATL

<140> 09/857,000

<141> 2001-09-07

<150> FR98/15074

<151> 1998-11-30

<150> PCT/FR99/02938

<151> 1999-11-26

<160> 13

<170> PatentIn version 3.1

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<212> PRT

<213> porcus

<220>

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<223> Protegrin PG1

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Arg Gly Gly Arg Leu Cys Tyr Cys Arg Arg Arg Phe Cys Val Cys Val
1 5 10 15

Gly Arg

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Arg Gly Gly Gly Leu Cys Tyr Cys Arg Arg Arg Phe Cys Val Cys Val
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Gly Arg

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Gly Arg

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Arg Gly Gly Arg Leu Cys Tyr Cys Arg Pro Arg Phe Cys Val Cys Val
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Gly Arg

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<213> Limmulus polyphemus

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<223> Polyphemusin P1

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Arg Arg Trp Cys Phe Arg Val Cys Tyr Arg Gly Phe Cys Tyr Arg Lys
1 5 10 15

Cys Arg

<210> 7
<211> 18
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Arg Arg Trp Cys Phe Arg Val Cys Tyr Lys Gly Phe Cys Tyr Arg Lys
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Cys Arg

<210> 8
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<212> PRT
<213> Unknown

<220>
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<223> Wherein 6 to 10 Xaa residues are hydrophobic amino acids

<220>
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<222> (6)..(6)
<223> Wherein Xaa is tryptophan

<400> 8

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

<210> 9
<211> 18
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<213> Unknown

<220>
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<223> Wherein Xaa is any amino acid as defined in the specification. Xaa (shown/defined as B in the specification) may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an amino acid for which the side chain carries a basic group

<220>
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<222> (2)..(2)
<223> Wherein Xaa is any amino acid as defined in the specification. Xaa may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an aliphatic or aromatic amino acid

<220>
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<220>
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<223> Wherein Xaa is any amino acid as defined in the specification. Xaa (shown/defined as B in the specification) may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an amino acid for which the side chain carries a basic group

<220>
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<220>
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<223> Wherein Xaa is any amino acid as defined in the specification. Xaa (shown/defined as B in the specification) may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an amino acid for which the side chain carries a basic group

<220>
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<223> Wherein Xaa is any amino acid as defined in the specification. Xaa (shown/defined as B in the specification) may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an amino acid for which the side chain carries a basic group

<220>
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<223> Wherein Xaa is any amino acid as defined in the specification. Xaa (shown/defined as B in the specification) may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an amino acid for which the side chain carries a basic group

<220>
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including amino acid with D configuration and represent an aliphatic or aromatic amino acid

<220>

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<222> (14)..(14)

<223> Wherein Xaa is any amino acid as defined in the specification. Xaa may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an aliphatic or aromatic amino acid

<220>

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<223> Wherein Xaa is any amino acid as defined in the specification. Xaa may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an aliphatic or aromatic amino acid

<220>

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<222> (16)..(16)

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<222> (17)..(17)

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<223> Wherein Xaa is any amino acid as defined in the specification. Xaa (shown/defined as B in the specification) may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an amino acid for which the side chain carries a basic group

<220>

<221> PEPTIDE

<222> (1)..(18)

<223> Peptide of formula (II)

<400> 9

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa

<210> 10
<211> 17
<212> PRT
<213> Unknown

<220>

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<222> (1)..(1)

<223> Wherein Xaa is any amino acid as defined in the specification. Xaa (shown/defined as B in the specification) may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an amino acid for which the side chain carries a basic group

<220>

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<222> (2)..(2)

<223> Wherein Xaa is any amino acid as defined in the specification. Xaa may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an aliphatic or aromatic amino acid

<220>

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<222> (3)..(3)

<223> Wherein Xaa is any amino acid as defined in the specification. Xaa may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an aliphatic or aromatic amino acid

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<222> (4)..(4)

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<222> (5)..(5)

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<220>

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<223> Wherein Xaa is any amino acid as defined in the specification. Xaa may be identical or different, and represent a natural or non-natural amino acid, including amino acid with D configuration and represent an aliphatic or aromatic amino acid

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<220>
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 <222> (1)..(17)
 <223> Peptide of formula (III)

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1				5						10					15

Xaa

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 <213> Unknown

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 <222> (1)..(18)

<223> Syn B1

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Arg Gly Gly Arg Leu Ser Tyr Ser Arg Arg Arg Phe Ser Thr Ser Thr
1 5 10 15

Gly Arg

<210> 12

<211> 10

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(10)

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1 5 10

<210> 13

<211> 17

<212> PRT

<213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(17)

<223> Peptide with amino acids in D form

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Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Arg Met Lys Trp Lys
1 5 10 15

Lys